

Work Order ID 145237

Thursday, May 05, 2016 9:19:41 AM

145237

Page 1

Item ID: D3693-1 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Rod End Bearing
Start Date: 5/6/2016 Start Qty: 12.00 ***12*** Cust Item ID:
Required Date: 5/20/2016 Req'd Qty: 12.00 ***12*** Customer:
Reference:

Approvals: Process Plan: MCS Date: MAY 05 2016 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3693	C								
100	PURCHASING	0.00							DAS 13 9-89
100									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>32314</u>								
	Purchase Part Number: 047-140-252-005								
	Supplier: Bell								
	Certificate of conformity is required								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110									
Packaging	Memo	0.24							
Packaging	Ensure certificate of conformity is attached								

12x SP/6-05-19

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coor. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation		Disposition			

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification ☐		☐	Pressure/Forced	☐	Temperature/Cure
Design ☐	☐	Operator ☐		☐	Bending	☐	Set-up
Doc/Data ☐	☐	Offset/Setup ☐		☐	Centre Not Concentric	☐	BOM/Route
Equip/Tooling ☐	☐	Supplier ☐		☐	Cracks	☐	Broken/Damage/Defect
Handling/Pre ☐	☐	Training ☐		☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified
Material ☐	☐	Use for Testing ☐		☐	Cuffs	☐	Contamination
Internal Transport ☐	☐	Poor Information ☐		☐	Crushing	☐	Countersink
Tribal Knowledge ☐	☐	Rushing ☐		☐	Heat Treat	☐	Cut Too Short
LOA ☐	☐	Product Improvement ☐		☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear
Substation ☐	☐	Process Improvement ☐		☐	Marks/Chatter	☐	Drill Holes
Past Expiry Date ☐	☐	Manufacturing Process ☐		OTHER :			
Misidentified ☐	☐	Past Due ☐					

Work Order ID 145237

Thursday, May 05, 2016 9:19:41 AM

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Page 2

Item ID: D3693-1

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Rod End Bearing

Start Date: 5/6/2016 Start Qty: 12.00

12

Cust Item ID:

Required Date: 5/20/2016 Req'd Qty: 12.00

12

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120

QC6- Inspect dimensions to drawing

0.00

120

QC

Memo

0.00

Quality Control

12DAS
38
9-89

MAY 19 2016

130

0.00

130

Small Fab

Memo

2.64

Small Fab

1- PRIOR TO DRILL FILL ROD WITH HYSOL OR MAGNOBOND
ADHESIVE AND LET CURE AS PER MANUFACTURER'S INSTRUCTION.

2- DRILL USING JIG DT9514

2-DEBURR

12FF

OCT 27 2016

140

QC5- Inspect part completeness to step on W/O

0.00

140

QC

Memo

0.24

Quality Control

12DAS
38
9-89

OCT 28 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition					
3/26 3/26 3/26								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Work Order ID 145237

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Page 3

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NS1

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NS2

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Start Date: 5/6/2016

Start Qty: 12.00

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Cust Item ID:

Required Date: 5/20/2016

Req'd Qty: 12.00

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Customer:

Reference:

Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run

Start

NR1

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

150

Identify as per dwg & Stock Location: _____

0.00

150

Packaging

Packaging

Memo

LOCATION : GA

0.12

12 OCT 3 1 2016DAS
6
9-89

160

QC21- Final Inspection - Work Order Release

0.00

160

QC

Quality Control

Memo

1.20

DAS
21
9-89

OCT 3 1 2016

DAS
21
9-89

OCT 3 1 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
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Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

Picklist Print

Thursday, May 05, 2016 9:19:46 AM

Page 1

Work Order ID: 145237

145237

Parent Item: D3693-1

D3693-1

Parent Item Name: Rod End Bearing

Start Date: 5/6/2016

Required Date: 5/20/2016

Start Qty: 12.00

Required Qty: 12.00

Comments: IPP Rev:A New Issue 08-01-17 JLM Verified By:EC
IPP Rev:B As per Rev B 09-01-20 JLM Verified By:DD IPP
REV:C 13.01.24 PER ECN12-693 DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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047-140-252-005

Purchased

No

Each

0.0000

12

047-140-252-005

Rod Bearing End

12x Sp/6-05-07

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

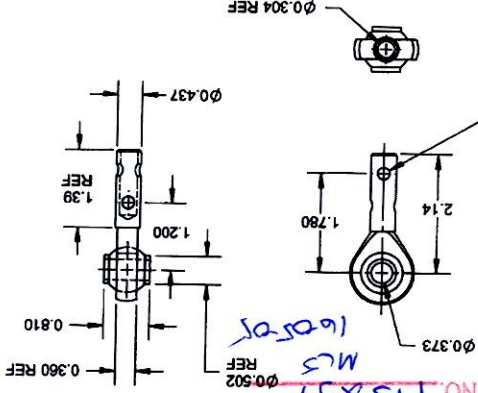
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

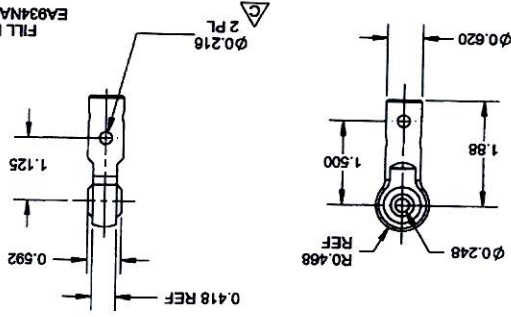
DART P/N	DESCRIPTION	BELL P/N	WEIGHT (lb)	FINISH	IDENTIFY
D3693-1	ROD END BEARING	047-140-252-005	0.19	NONE	NONE
D3693-3	ROD END BEARING	205-060-101-001	0.14	NONE	NONE

SPECIFICATION CONTROL DRAWING

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 145233
MCS
160505



D3693-3
ROD END BEARING



D3693-1
ROD END BEARING

ADHESIVE
E834NA OR MAGNABOND 8398
FILL ROD END WITH HYSOL
PRIOR TO DRILL
2 PL
0.216



RELEASED
2013-01-22

DATE	12.12.05
DESIGN	RF
DRAWN	DB
CHECKED	MB
MFG. APPR.	JMM
APPROVED	
DE APPR.	
TITLE	ROD END BEARING
SCALE	NTS
REV. C	D3693
DRAWING NO.	HAWKESBURY, ONTARIO, CANADA
DART AEROSPACE LTD	
HAWKESBURY, ONTARIO, CANADA	
REV. C	D3693
SHEET 1 OF 1	
DATE	08.03.12
BY	RF
DATE	08.12.15
BY	RF
DATE	12.12.05
BY	DB
DESCRIPTION	REMOVED SHADOWN VIEW (ZIN DB-1, D1-1): 0.592 WAS 0.591 (ZIN DB-1) REFORMATTED SHEET, TRANSFORMED
REV. A	NEW ISSUE
REV. B	GENERAL NOTES TO TABLE FORMAT
REV. C	0.216 PLT HOLES WERE 0.189, (ZIN DB-1, C4-1) REF



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO32314**

Purchase Order Date 5/9/2016

PO Print Date 5/9/2016

Page Number 1 of 2

Order From :

VU-EAG002

Ship To : DART AEROSPACE LTD

EAGLE COPTERS MAINTENANCE LTD.
823 MCTAVISH ROAD N E
CALGARY, AB T2E 7G9
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

MAY 10 2016

Contact Name

Vendor Phone

403-250-7370

Ship To Contact

Ship To Phone

Ship Via:

FedEx Overnight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	047-140-252-005 AS PER DWG D3693 REV. C B145237	Rod Bearing End	5/17/2016 Yes 5/17/2016		12.00 Each	\$120.00	\$1,440.00
Line Total:							\$1,440.00
2	047-140-252-005 AS PER DWG D3284 REV. B B145236	Rod Bearing End	5/17/2016 Yes 5/17/2016		12.00 Each	\$120.00	\$1,440.00
Line Total:							\$1,440.00

Note:

5/9/2016

Packing Slip

Eagle Copters Maintenance Ltd

823 McTavish Rd, NE
Calgary, Alberta T2E 7G9
Canada

Telephone: (403) 250-7370

May 17, 2016

Fax: (403) 250-7110

Shipment number: SH#16-001310

Ship To: Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Phone: (613)632-5200

Ship Via: FEDEX
Carrier Terms:

Waybill: 783106515919

Item Part / Tool Number	Part / Tool Description	Current Location	Qty UOM	Serial Number	Lot Number/Tool ID
1 047-140-252-005	BEARING	Shipping Area	23 EA ✓		LT-16-005538
Type of sale: Outright					
Customer PO number: PO32314					
Sales Order Number: SO16-00625.001					
2 047-140-252-005	BEARING	Shipping Area	1 EA ✓		LT-16-005335
Type of sale: Outright					
Customer PO number: PO32314					
Sales Order Number: SO16-00625.001					

*** End of Document ***

>> denotes that the Packing Slip line item has already been printed.

1. Approving Civil Aviation Authority/Country FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 81090567100-8	
4. Organization Name and Address: Bell Helicopter A Textron Company		Bell Helicopter Textron Inc. Logistics Center 3200 High River Road Suite 100 FORT WORTH TX 76155		FAA Production Certificate PC-100SW		5. Work Order/Contract/Invoice Number: 0000198953
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	BEARING	047-140-252-005	24	N/A	NEW	
12. Remarks: Export airworthiness approval - this article meets the special requirements of Canada						
13a. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.			14a. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12. Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature: 		13c. Approval/Authorization No: ODA-710621-SW		14b. Authorized Signature:		14c. Approval/Certificate No:
13d. Name (Typed or Printed): Terry Baker		13e. Date(dd/mmm/yyyy): 11/MAY/2016		14d. Name(Typed or Printed):		14e. Date(dd/mmm/yyyy):
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

1. Approving Civil Aviation Authority/Country FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 81090567100-8	
4. Organization Name and Address: Bell Helicopter A Textron Company		Bell Helicopter Textron Inc. Logistics Center 3200 High River Road Suite 100 FORT WORTH TX 76155		FAA Production Certificate PC-100SW		5. Work Order/Contract/Invoice Number: 0000198953
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
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13d. Name (Typed or Printed): Terry Baker		13e. Date (dd/mm/yyyy): 11/MAY/2016		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):
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13d. Name (Typed or Printed): Terry Baker		13e. Date(dd/mmm/yyyy): 11/MAY/2016		14d. Name(Typed or Printed):		14e. Date(dd/mmm/yyyy):
User/Installer Responsibilities						
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4. Organization Name and Address: Bell Helicopter A Textron Company		Bell Helicopter Textron Inc. Logistics Center 3200 High River Road Suite 100 FORT WORTH TX 76155		FAA Production Certificate PC-100SW		5. Work Order/Contract/Invoice Number: 0000198953
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
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